safety*link*™

INSTALLATION HANDBOOK:

WALL/CEILING MOUNTED STEEL

DESIGNED TO BE MOUNTED ON THE VERTICAL FACE OF A WALL OR THE UNDERSIDE OF A CEILING

READ ENTIRE HANDBOOK BEFORE INSTALLING ANY SAFETYLINK PRODUCT.
ALL PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH SAFETYLINK'S INSTALLATION HANDBOOK, USING ONLY PRODUCTS SUPPLIED BY SAFETYLINK PTY LTD.
FAILURE TO FOLLOW ALL WARNINGS AND INSTRUCTIONS MAY RESULT IN A SERIOUS INJURY OR DEATH.

If you are uncertain and need help please email: safetylink@heightsafety.com.au
Phone: +61 249 972272 or 1300 789545 | Fax: +61 249 971104
or visit our website www.heightsafety.com

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WARNINGS

READ CAREFULLY SOMEONE'S LIFE DEPENDS ON IT

- The building or structure for the anchorages should be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.
- All safety procedures must be complied with in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times by being attached to anchor point approved safety equipment, using a scaffold or a secured ladder.
- Installation is to be carried out by, or under the supervision of a competent person.
- To prevent galling of threads on tensioners use nickel anti-seize.
- Recommended waterproofing for roof tiles: *Sika Flex Co-Polymer Sealant*.
- Recommended waterproofing for metal roof: S*ilicone Sealant*.
- All threads must be coated with Locktite prior to assembly. (IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions).

⚠ **Maximum user per system is Four (4).**

⚠ **Maximum person per span is Two (2).**

⚠ **See system information for site specific use.**

MAINTENANCE – PERIODIC INSPECTIONS

All items of equipment which are in regular use shall be subjected to periodic inspection and servicing.

These regular scheduled inspections and servicing must be carried out by a competent person *(refer to AS/NZS 1891.4:2009 if clarification required or contact SafetyLink).*

SafetyLink Anchorages *(In accordance with AS/NZS 1891.4:2009)*
ALL ANCHORAGES MUST BE INSPECTED EVERY 12 MONTHS.

Procedures to be followed at inspection time:

- Visually inspect anchors for signs of deterioration.
- The Single End Anchor and Intermediate Wall Bracket should remain straight, a bent Single End Anchor or Intermediate Wall Bracket will indicate that the StaticLine has arrested a fall.
- Visually inspect the components of the anchor for corrosion, superficial surface marking is permitted while deeper corrosion or pitting would require attention.
- Manually (by hand) check the Single End Anchor and Intermediate Wall bracket for rigidity and tightness, if the Single End Anchor and Intermediate Wall Bracket can turn in the anticlockwise or clockwise direction it will require attention.
- Visually inspect the attachment component of the anchorage where practically possible.
- Visually inspect the parent structure for modifications or deterioration which might lead to loss of anchorage strength.
- Check the condition of line Tensioners and Energy Absorbers.
- Check for any evidence of wear, cuts, looseness, extension, interstrand wear, corrosion, stiffness, brittleness or fraying of the steel cable.
- Check the integrity of cable terminations.
- Check for the presence of contaminants or exposure to a corrosive or extreme environment which could significantly reduce the working load of the StaticLine.
- Run the SafetyLink Shuttle along the length of the line to verify its correct function.

IN ADDITION TO SAFETYLINK PTY LTD EQUIPMENT, ALL ANCILLARY EQUIPMENT MUST BE INSPECTED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND THE MANUFACTURER'S INSTRUCTIONS.

FOR MAINTENANCE ADVICE AND SERVICES PLEASE CONTACT SAFETYLINK ON 0249 972272 OR 1300 789545 FOR YOUR NEAREST SAFETYLINK INSPECTION SERVICE CENTRE OR EMAIL: safetylink@heightsafety.com.au

To download Installation Manuals on other SafetyLink products please visit our website at www.heightsafety.com

WARRANTIES

EXTRACT: SafetyLink Pty Ltd STANDARD TERMS AND CONDITIONS

11.1 To the extent permitted by law all implied conditions, warranties and undertakings are expressly excluded.

11.2 Except as provided in this clause the Company shall not be liable for any loss or damage, whether direct or indirect (including consequential losses or damage) arising out of any breach of contract by the Company or any negligence of the Company, its employees or agents.

11.3 Should the Company be liable for a breach of a guarantee, condition or warranty implied by the Australian Consumer Law (not being a guarantee, condition or warranty implied by sections 51, 52 and 53 of that Law) then its liability for a breach of any such condition or warranty express or implied shall be limited, at its option, to any one or more of the following.

A) in case of Goods
- (I) the replacement of the Goods or the supply of equivalent Goods.
- (II) the repair of the goods,
- (III) the payment of the cost of replacing the Goods or acquiring equivalent Goods.
- (IV) The payment of the cost of having the Goods repaired.

Provided that any such Goods are returned to the Company by the Purchaser at the Purchaser's expense.

B) in the case of services
- (i) the supply of the services again,
- (ii) the payment of the cost of having the services supplies again.

11.4 The Company will not liable for the costs of recovery of the Goods from the field, loss of use of the Goods, loss of time, inconvenience, incidental or consequential loss or damage, nor for any other loss or damage of her than as stated above, whether ordinary or exemplary, caused either directly or indirectly by use of the Goods.

11.5 The Company warrants that at the time of shipment, Products manufactured by it will be free from defects in material and workmanship. In the absence of a modified written warranty, the Company agrees to making good any such defects by repairing the same or at the Company 's option by replacement, for a period of (1) one year from the date of shipment. This limited warranty applies provided that:

- (a) defects have arising solely from faulty materials or workmanship;
- (b) the Products have not received maltreatment, inattention or interference;
- (c) **the Products have been installed in accordance with the Company's Installation Handbooks using only products supplied by the Company;**
- (d) accessories used with the Products are manufactured by or approved by the Company ;
- (e) the Products are maintained in accordance with Australian Standard 1891.4 (section 9).
- (f) you notify any claim under this warranty to SafetyLink in writing to the address below no later than 14 days after the event or occurrence concerning the produce giving rise to the claim and you pay all costs related to your claim.

This warranty does not apply to any defects or other malfunctions caused to the Goods by accident, neglect, vandalism, misuse, alteration, modification or unusual physical, environment or electrical stress.

Please note that the benefits to the purchaser (as a consumer) given by this warranty are in addition to your other rights and remedies under the Australian Consumer Law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

11.6 If any goods are not manufactured by the Company, the guarantee of the manufacturer thereof shall be accepted by the Purchaser as the only express warranty given in respect of the goods.

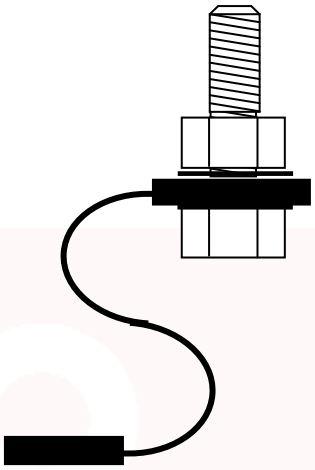
11.7 Except as provided in this clause 11, all express and implied warranties, guarantees and conditions under statute or general law as the merchantability, description, quality, suitability or fitness of the Products for any purpose or as to design, assembly, installation, materials or workmanship or otherwise are hereby expressly excluded (to the extent to which they may be excluded by law).

PLEASE SEE SAFETYLINK PTY LTD FULL STANDARD TERMS OF CONDITIONS OF SALE FOR FURTHER REFERENCE.

Product Code: STAT.WALLMT002

INSTALLATION OF A SAFETYLINK WALL/CEILING MOUNTED STATICLINE SYSTEM USING WALL MOUNTED END UNIT

DESIGNED TO BE MOUNTED ON THE VERTICAL FACE OF A WALL OR THE UNDERSIDE OF A CEILING

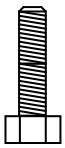


COMPONENTS

Nut: 16mm 316 Stainless Steel

Washer: 16mm 316 Stainless Steel x 2

S Cable End Support

Bolt: 16mm x 90mm 316 Stainless Steel 

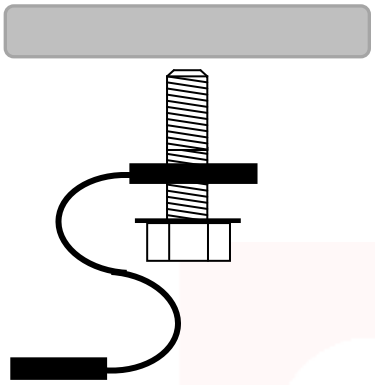
Product Code: STAT.WALLMT002

ASSEMBLING

Step 1

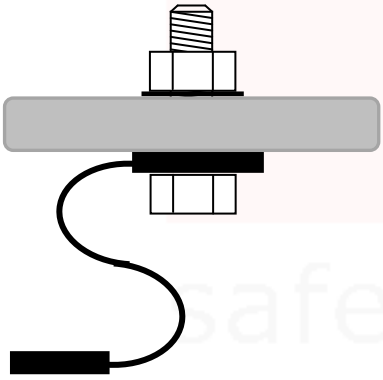
Insert Bolt through 16mm Washer and S Cable End Support then through steel section.

Note: Use Loctite on all threads. *(IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions).*



Step 2

Apply Washer and Nut making certain the S Cable End Support lines up with run of the Static Line.



Note: Threads need to have a minimum of six full 360º turns into the ultimate thread.

Inspect the steel for strength.

Intermediate Wall Brackets must be spaced at maximum 10 metres apart.

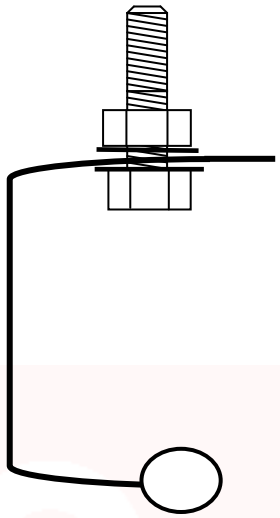
⚠ If any doubt exists as to the strength of the structure an engineer should make the assessment.

⚠ During installation you must be safe at all times.

INTERMEDIATE WALL BRACKET

Product Code: STAT.WALLMT001

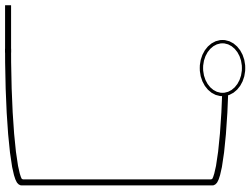
INSTALLATION OF A SAFETYLINK WALL/CEILING MOUNTED STATICLINE SYSTEM USING INTERMEDIATE WALL BRACKET

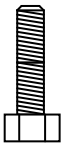


COMPONENTS

Nut: 16mm 316 Stainless Steel

Washer: 16mm 316 Stainless Steel

Intermediate Wall Bracket 

Bolt: 16mm x 90mm 316 Stainless Steel 

INTERMEDIATE WALL BRACKET

Product Code: STAT.WALLMT001

ASSEMBLING

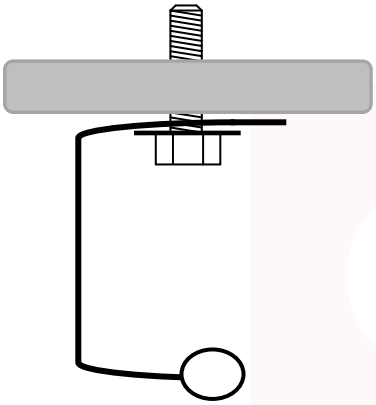
Note: Maximum distance between Intermediate Wall Brackets is ten (10) metres.

Note: Threads need to have a minimum of six full 360º turns into the ultimate thread.

(IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions).

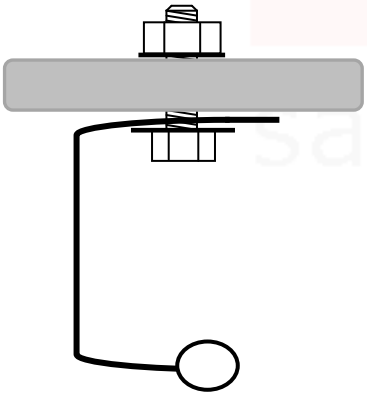
STEP 1

Insert Bolt through 16mm Washer and Intermediate Bracket then through steel section.
(Coat threads with Loctite).



STEP 2

Apply Washer and Nut, tighten nut making certain the Intermediate Bracket lines up with the run of the line.



Inspect the steel for strength.

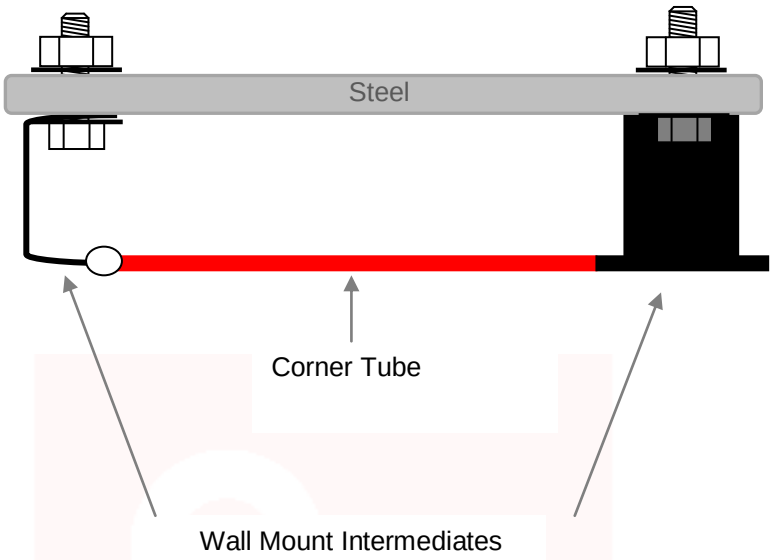
Intermediate Wall Brackets must be spaced at maximum 10 metres apart.

⚠ If any doubt exists as to the strength of the structure an engineer should make the assessment.

⚠ During installation you must be safe at all times.

Product Code: STAT.WALLMT003

INSTALLATION OF A SAFETYLINK WALL/CEILING MOUNTED STATICLINE SYSTEM USING WALL MOUNTED CORNER UNIT



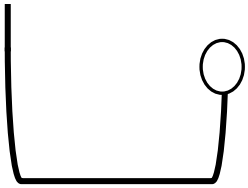
COMPONENTS

Corner Tube

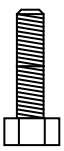
2 x Nut: 16mm 316 Stainless Steel

4 x Washer: 16mm 316 Stainless Steel

2 x Intermediate Wall Bracket



2 x Bolt: 16mm x 90mm 316 Stainless Steel



Product Code: STAT.WALLMT003

ASSEMBLING

Note: Threads need to have a minimum of six full 360º turns into the ultimate thread.

STEP 1
Insert Bolt through 16mm Washer and Intermediate Wall Bracket then through Steel Beam.
Note: Use Loctite on all threads.

STEP 2
Apply Washer and Nut, tighten nut making certain the Intermediate Bracket lines up with the run of the line.

(IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions).

Inspect the steel for strength.
Intermediate Wall Brackets must be spaced at maximum 10 metres apart.

⚠ If any doubt exists as to the strength of the structure an engineer should make the assessment.

⚠ During installation you must be safe at all times.

1. Attach cable to termination at one end only with Swaged/Swageless Termination.
2. Connect Termination to S Cable End Support at opposite end to Tensioner.
3. Run cable through Intermediate wall brackets to opposite end of StaticLine (Intermediate wall brackets must be installed as per installation manual, maximum distance between Intermediate wall brackets 10 metres).
4. If corner units are to be used in the system, make sure that the cable runs thru the corner tube between the two corner intermediate wall brackets. Ensure the corner tube is orientated in the correct position/direction before final cutting and tensioning of the cable.
5. Connect Tension Indicator to S Cable End Support at tensioner end of line.
6. Connect Swaged/Swageless Tensioner to Tension Indicator.
7. Open out Tensioner.
8. Match up cable so it reaches into Tensioner and mark cable.
9. Cut cable to length.
10. Swage cable to Tensioner.
11. Tension cable till disc on Tension Indicator can be spun freely.

Complete layout diagram on following pages.

TIGHTENING TORQUE FOR SWAGELESS TERMINALS

Wire size:		Nm	Lbf ft
Ø 3	-	11	8.25
-	1/8”	11	8.25
Ø 4	5/32”	17	12.75
-	3/16”	22	16.5
Ø 5	-	22	16.5
-	7/32	38	28.5
Ø 6	-	38	28.5
-	1/4”	38	28.5
Ø 7	9/32”	48	35.5
Ø 8	5/16”	58	43.0
-	3/8”	75	55.5
Ø 10	-	75	55.5
Ø 12	-		
-	1/2”		
Ø 14	-		
Ø 16	-		

Swageless Terminals

Jaw housing
Caja
Coprimorsetto

Jaws
Mordazas
Morsetto

Pressure ring (brass)
Anillo de latón
Anello di ottone

Head
Cabeza
Testa

GB

① First slide the jaw housing in place on the cable.

② Then slide the jaws onto the cable, ensuring there is some space between the jaw section.

③ Place the brass pressure ring on the end of the cable. Make sure that the distance from the pressure ring to the end of the cable is **5 mm.**

④ Slide the jaw housing over the jaws.

⑤ The terminal can now be assembled. Screw the head **firmly to the** jaw housing with a spanner. Then tighten the lock nut **firmly** with a spanner.

⑥ Blue Wave recommends sealing with a non-acidic sealing compound when assembling, Sikaflex-221, for example. Disassemble the terminal and fill the jaw housing and the cavity with sealing compound, then assemble the terminal. Repeat this until the sealing compound emerges from the hole through which the cable is inserted. Clean the terminal. **Do not reuse the jaws.**
Make sure that the dimensions of the terminal and cable match.

Maintenance
Check the terminal regularly for damage in connection with longer exposure to concentrated saline solutions or polluted surroundings. Check the seal, if it is broken remove all sealing compound. Then rinse the terminal with fresh water and treat it with WD40. Reseal the terminal with non-acidic sealing compound.

Note
After the first dynamic load the terminal MUST be tightened again. The terminal was developed for use with the following types of cable: 1x19, 7x19, 7x7.
The terminal can also be used with Dyform.
When assembling swageless terminals the breaking strength of the cable used will be reduced by 0-15%.
Refer to the table for the breaking strength of the terminal.

F

① Enfilez le boîtier dans le câble.

② Enfilez ensuite les mâchoires sur le câble, réparties de manière qu'il y ait un espace uniforme entre elles.

③ Montez la bague en laiton sur l'extrémité du câble. En veillant à laisser **au moins 5 mm** entre la bague et l'extrémité du câble.

④ Ramenez le boîtier sur les mâchoires.

⑤ Vous pouvez maintenant monter la terminaison manuelle. Vissez la tête sur le boîtier en **serrant fort** au moyen d'une clé. Serrez ensuite le contre-écrou **très fort** avec une clé.

⑥ Blue Wave recommande de sceller l'ensemble au cours du montage avec un produit d'étanchéité neutre, tel que le Sikaflex-221. Démontez la terminaison, remplissez le boîtier et le trou libre de la tête avec le produit d'étanchéité et remontez la terminaison. Répétez cette opération jusqu'à ce que le produit d'étanchéité sorte du trou au niveau du câble. Essuyez la terminaison. **Ne pas réutiliser les mâchoires.** Assurez-vous que la section du câble correspond aux dimensions de la terminaison.

Maintenance
En cas de séjours prolongés dans un environnement extrêmement salin ou pollué, assurez-vous à intervalles réguliers que la terminaison n'est pas endommagée. Contrôlez le scellement ; si celui-ci est endommagé, retirez la totalité du produit d'étanchéité. Rincez ensuite la terminaison à l'eau douce, traitez-la ensuite avec du WD40. Refaites le scellement de la terminaison avec un produit d'étanchéité neutre.

Remarque
Après la première charge dynamique, il est INDISPENSABLE de retendre la terminaison. La terminaison a été mise au point pour les types de câbles suivants : 1x19, 7x19, 7x7. Il est possible d'utiliser la terminaison avec Dyform. En cas de montage de terminaisons Swageless, la résitance à la rupture du câble utilisé sera réduite de 0 à 15 %. La résistance à la rupture de la terminaison est conforme au tableau ci-dessous.

I

① Inserire prima nel cavo il coprimorsetto.

② Inserire in seguito il morsetto, facendo in modo che l'aria tra le parti del morsetto sia uniforme.

③ Collocare l'anello di ottone all'estremità del cavo. La distanza dall'anello di ottone all'estremità del cavo **deve essere 5 mm.**

④ Spingere il coprimorsetto sopra al morsetto.

⑤ Ora il terminale può essere montato. Avvitare **energicamente** la testa al coprimorsetto con una chiave e **stringere bene** il controdado con una chiave.

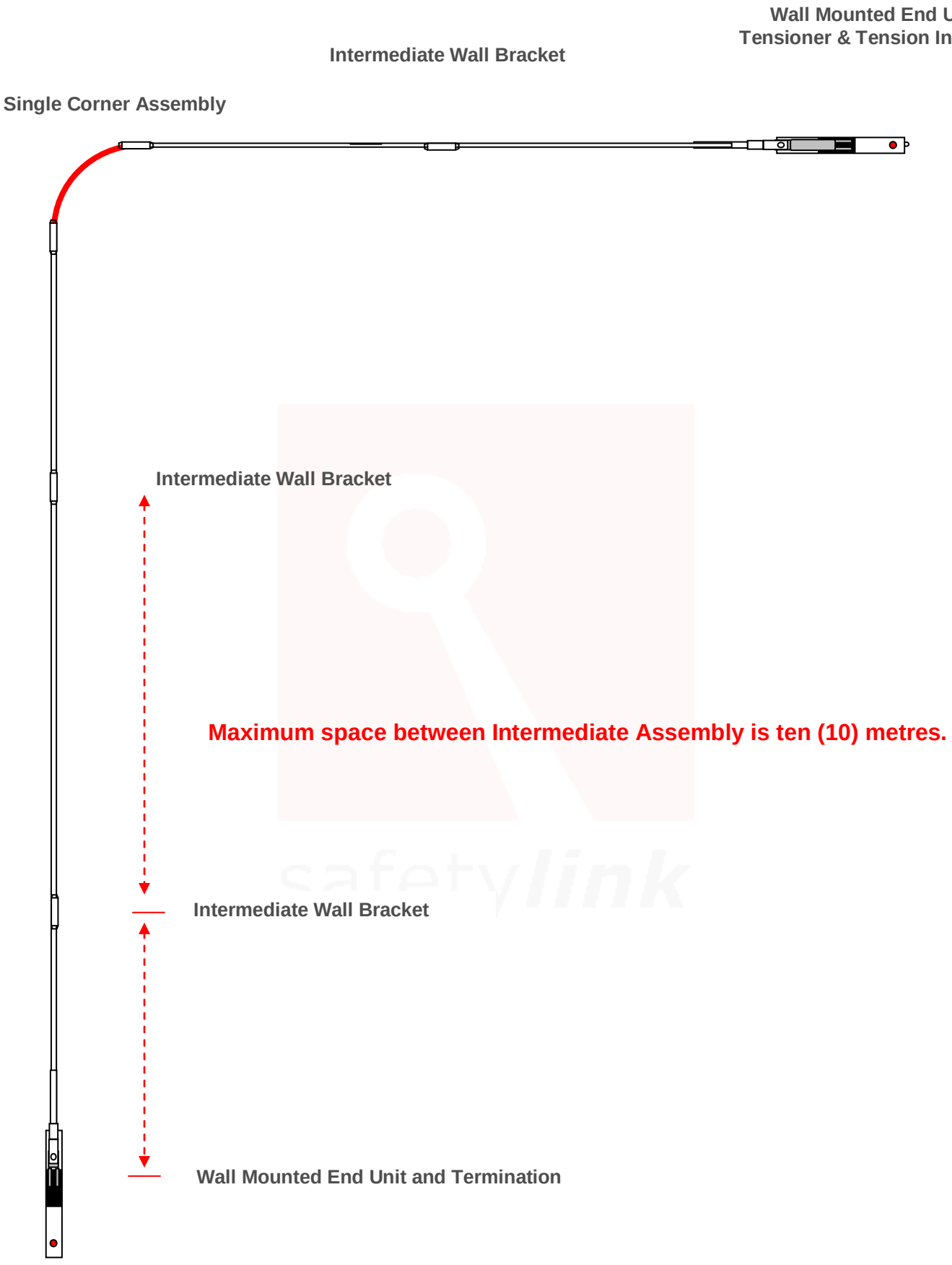
⑥ Durante il montaggio Blue Wave raccomanda di sigillare con una pasta di tenuta priva di acidi, ad esempio Sikaflex-221. Separare il terminale, riempire il coprimorsetto ed il foro libero sulla testa con la pasta di tenuta, poi montare il terminale. Ripetere l'operazione fino a che la pasta di tenuta esca dal foro sul cavo. Pulire il terminale.
Non riutilizzate i morsetti.
Fare attenzione che la dimensione del terminale e quella del cavo sia la stessa.

Manutenzione
In caso di lunga permanenza in ambiente estremamente salino o inquinato, controllare regolarmente il terminale per verificare eventuali danni subiti. Controllare la sigillatura e se non è più a tenuta, togliere tutta la pasta di tenuta.
Risciacquare quindi il terminale in acqua dolce e trattarlo con WD40.
Sigillare poi nuovamente il terminale con pasta di tenuta priva di acidi.

Attenzione
Il terminale DOVRA' essere stretto di nuovo dopo il primo carico dinamico. Il terminale è stato progettato per i seguenti tipi di cavo: 1x19, 7x19, 7x7.
Il terminale può essere usato per Dyform.
Montando i Terminali Swageless il carico di rottura del cavo usato viene ridotto del 0 – 15 %.
I carichi di rottura dei terminali sono indicati nello schema che segue.

Swageless Terminal Breaking strength: Charge de rupture des terminaisons Swageless: Carico di rottura per i Terminali Swageless non rullati:			
Wire Dim Section du câble Diemens. cavo	**Breaking strength Charge de rupture Carico di rottura**	**Wire Dim Section du câble Diemens. cavo**	**Breaking strength Charge de rupture Carico di rottura**
		1/8"	1,650 LBS
3,0 mm	7,0 KN	5/32"	3,300 LBS
4,0 mm	14,5 KN	3/16"	4,700 LBS
5,0 mm	21,0 KN	7/32"	6,600 LBS
6,0 mm	36,0 KN	1/4"	8,100 LBS
7,0 mm	46,0 KN	9/32"	10,300 LBS
8,0 mm	54,5 KN	5/16"	12,300 LBS
10,0 mm	81,0 KN	3/8"	17,600 LBS
12,0 mm	117,5 KN	1/2"	29,900 LBS

WALL MOUNTED SYSTEM SETTING OUT


Wall Mounted End Unit,
Tensioner & Tension Indicator
Intermediate Wall Bracket
Single Corner Assembly
Intermediate Wall Bracket
Maximum space between Intermediate Assembly is ten (10) metres.
Intermediate Wall Bracket
Wall Mounted End Unit and Termination

IN CASE OF ACCIDENT

⚠ **A FALL RESCUE PLAN SHOULD BE DEVELOPED PRIOR TO USING SAFETYLINK EQUIPMENT.**

⚠ **Persons working at heights should not work alone.**

It is critical that before using any SafetyLink Systems a fall rescue plan is in place for any persons suspended mid-air following a fall. Serious injury or death can occur in a matter of minutes, particularly if a person's movement or breathing is restricted or loss of consciousness has occurred. In accordance with your fall rescue plan and appropriate first aid procedures it is essential to remove the person from the suspended position as quickly as possible.

In accordance with AS/NZS 1891.4:2009 clause 9.5

EQUIPMENT WHICH HAS ARRESTED A FALL OR SHOWS A DEFECT

Any piece of equipment including both personal and permanently installed items, which has been used to arrest a fall or which shows any defect during operator or periodic inspection shall be withdrawn from service immediately and a replacement obtained if necessary. A label indicating the condition or defect should be attached to the equipment, and it should be examined by a competent person who will decide whether the equipment is to be destroyed or repaired if necessary and returned to service. In the latter case, details of any repair shall be documented and a copy given to the operator.

safety*link*™

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